

This listing of claims will replace all prior versions and listings of claims in this application:

## Listing of Claims

1-4 (Cancelled)

5. (Previously presented) A system as claimed in claim 10, wherein the mobile terminal does not register in the cellular carrier network as it moves from the wireless local area network into the cellular carrier network and the mobile terminal inherits call parameters of the controller and switches its radio to the cellular carrier network using the call parameters.

6. (Currently amended) A system as claimed in claim 10, wherein the controller implements ~~TDMA to VoIP~~ TDM-to-VoIP conversion.

7. (Currently amended) A flexible method of handling calls between a wireless local area network of an enterprise and a cellular carrier network for a mobile terminal that is capable of communicating over the wireless local area network and the cellular carrier network, the method comprising:

a controller registering and emulating ~~[[a]]~~ the mobile terminal ~~[[,]]~~ which is capable of communicating over the wireless local area network and the cellular carrier network, on the cellular carrier network when the mobile terminal is communicating via the wireless local area network within the enterprise;

the controller receiving, via a fixed radio terminal, calls from the cellular carrier network being received via a fixed radio terminal of the controller, the controller routing the calls received from the cellular carrier network to the mobile terminal over the wireless local area network; and  
the controller maintaining the calls to the mobile terminal by maintaining the calls over the cellular carrier network and through the fixed radio terminal

and over the wireless local area network to the mobile terminal, which is communicating via the wireless local area network.

8-9 (Cancelled)

10. (Currently amended) A system for managing calls between a wireless local area network and a cellular carrier network, the system comprising:

a dual mode mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and

a controller that registers and emulates the mobile terminal on the cellular carrier network, when the mobile terminal is communicating via the wireless local area network; ~~with~~ the calls from the cellular carrier network being received via a fixed radio terminal of the controller, the controller routing calls received from the cellular carrier network to the mobile terminal over the wireless local area network, ~~wherein with~~ each of the calls ~~being~~ is maintained by the controller over the cellular carrier network and through the fixed radio terminal and over the wireless local area network to the mobile terminal, which is communicating via the wireless local area network.

11. (Cancelled)

12. (Previously presented) A system as claimed in claim 10, wherein the mobile terminal is assigned two telephone numbers, one for the cellular carrier network and one for a private branch exchange.

13. (Previously presented) A system as claimed in claim 12, wherein calls placed to the telephone number of the cellular carrier network are received by the controller and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network and calls placed to the telephone number of the private branch exchange are received by the

controller and routed to the terminal via the wireless local area network when the mobile terminal is on the local area network.

14. (Previously presented) A system as claimed in claim 10, wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful.

15. (Previously presented) A system as claimed in claim 10, wherein calls are monitored for call quality over the wireless local area network.

16. (Previously presented) A system as claimed in claim 15, wherein when the call quality degrades to a threshold, the mobile terminal switches to communicating over the cellular carrier network.

17. (Previously presented) A system as claimed in claim 16, wherein if the call is on a phone number of a private branch, when mobile terminal is switching to communicating over the cellular carrier network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

18. (Previously presented) A system as claimed in claim 17, wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is switching to communicating over the cellular carrier network, then the controller functions to handoff the call to the mobile terminal, which then activates communications for the cellular carrier network.

19. (Previously presented) A system as claimed in claim 16, wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is switching to communicating over the cellular carrier network, then the controller functions to handoff the call to the mobile terminal, which then activates communications for the cellular carrier network.

20. (Previously presented) A system as claimed in claim 10, wherein calls are monitored for call quality over the cellular carrier network.

21. (Previously presented) A system as claimed in claim 20, wherein when the call quality degrades to a threshold, the mobile terminal switches to communicating over the wireless local area network if available.

22. (Previously presented) A system as claimed in claim 21, wherein when the call quality degrades to the threshold, the controller monitors communications for the mobile terminal on the cellular carrier network maintaining the call and sends communications to the mobile terminal via the local area network and communications from the mobile terminal to the cellular carrier network via a fixed antenna.

23. (Currently amended) A system for managing calls between a wireless local area network and a cellular carrier network, the system comprising:

a dual mode mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and

a controller that registers and emulates the mobile terminal on the cellular carrier network, when the mobile terminal is communicating via the wireless local area network; ~~with~~ the calls from the cellular carrier network being received via a fixed radio terminal of the controller, the controller routing calls received from the cellular carrier network to the mobile terminal over the wireless local area network, wherein ~~with~~ each of the calls to the mobile terminal being is maintained over the cellular carrier network and through the fixed radio terminal and over the wireless local area network to the mobile terminal, when the mobile is communicating via the wireless local area network;

wherein the mobile terminal is assigned two telephone numbers, one for the cellular carrier network and one for a private branch exchange and calls placed to the telephone number of the cellular carrier network are received

by the fixed radio terminal of the controller and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the local area network and calls placed to the telephone number of the private branch exchange are received by the controller and routed to the terminal via the wireless local area network when the mobile terminal is on the local area network;

wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful;

wherein if the call is on a phone number of a private branch exchange, when mobile terminal is communicating over the cellular carrier network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network; and

wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is communicating over the cellular carrier network, then the controller handoffs the call to the mobile terminal, which then activates communications for the cellular carrier network.

24. (Previously presented) A system as claimed in claim 23, wherein when the call quality degrades to the threshold, the controller monitors communications for the mobile terminal on the cellular carrier network maintaining the call and sends communications to the mobile terminal via the local area network and communications from the mobile terminal to the cellular carrier network via a fixed antenna.

25. (Previously presented) A system as claimed in claim 10, wherein the controller implements CDMA-to-VoIP conversion.

26. (Previously presented) A method as claimed in claim 7, further comprising the mobile terminal inheriting call parameters of the controller and switching a

radio to the cellular carrier network using the call parameters when the mobile terminal moves from the wireless local area network into the cellular carrier network.

27. (Previously presented) A method as claimed in claim 7, further comprising assigning the mobile terminal two telephone numbers, one for the cellular carrier network and one for a private branch exchange of the enterprise.

28. (Previously presented) A method as claimed in claim 27, further comprising:  
for calls placed to the telephone number of the cellular carrier network,  
receiving the calls at the fixed radio terminal of the controller and routing the calls to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network; and  
for calls placed to the telephone number of the private branch exchange,  
receiving the calls by the controller and routing the calls to the terminal via the wireless local area network when the mobile terminal is on the local area network.

29. (Previously presented) A method as claimed in claim 7, further comprising the mobile terminal attempting to register with the wireless local area network and only registering with the cellular carrier network if registration with the wireless local area network is unsuccessful.

30. (Previously presented) A method as claimed in claim 7, further comprising monitoring calls for call quality over the wireless local area network.

31. (Previously presented) A method as claimed in claim 30, further comprising, when the call quality degrades to a threshold, the mobile terminal switches to communicating over the cellular carrier network.

32. (Previously presented) A method as claimed in claim 30, further comprising if the call is on a phone number of a private branch exchange of the enterprise when mobile terminal is switching to communicating over the cellular carrier

network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

33. (Previously presented) A method as claimed in claim 30, further comprising, if the call is on a phone number of the cellular carrier network when mobile terminal is switching to communicating over the cellular carrier network, then the controller handoffs the call to the mobile terminal, which then activates communications for the cellular carrier network.